

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number  
**WO 2005/066213 A1**

- (51) International Patent Classification<sup>7</sup>: **C08B 37/08**, A61K 47/36
- (21) International Application Number:  
PCT/CA2004/002202
- (22) International Filing Date:  
24 December 2004 (24.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/534,346 6 January 2004 (06.01.2004) US
- (71) Applicant (for all designated States except US): **UNIVERSITE DE SHERBROOKE** [CA/CA]; Bureau de liaison Entreprises-Université, Sherbrooke, Québec J1K 2R1 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LEHOUX, Jean-Guy** [CA/CA]; 1220, rue de l'Ontario, Sherbrooke, Québec J1J 3S3 (CA). **DUPUIS, Gilles** [CA/CA]; 1424 rue Béthune, Sherbrooke, Québec J1J 2A2 (CA).
- (74) Agents: **DUBUC, J. et al.**; Goudreau Gage Dubuc, Stock Exchange Tower, 800 Place Victoria, Suite 3400, P.O. Box 242, Montreal, Québec H4Z 1E9 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report  
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A SIMPLIFIED METHOD TO RETRIEVE CHITOSAN FROM ACIDIC SOLUTIONS THEREOF

(57) Abstract: Composition of salted out chitosan polymer containing mixture of certain salting out salts as well as methods for making and using same are disclosed. Chitosan polymer preparations produced by such methods are substantially free of chitosanase, undesirable salts and excess acid and retain their physiological as well as biological and physico-chemical properties. The chitosan preparations of the present invention are valuable for the dispensing of biologically active chitosan in forms of drugs or food supplement. Most of these preparations easily dissolve in an aqueous acidic milieu such as the one of the stomach.

WO 2005/066213 A1